

Tobamovirus Expression Vectors

TMV



TMV-Expression Vector

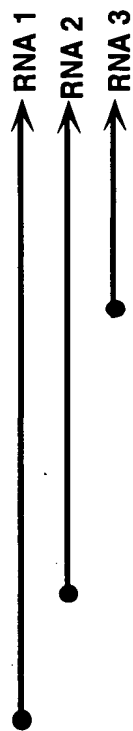
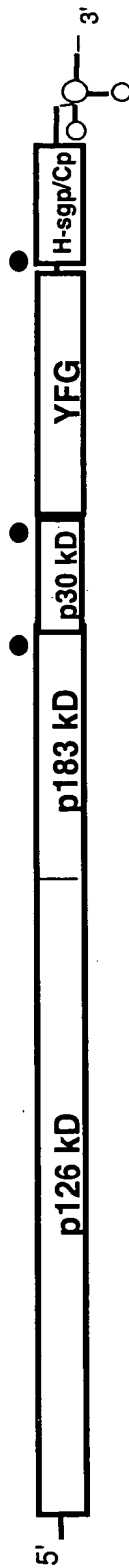


FIG. 1

Tobamovirus Vector for rGal-A

Expression

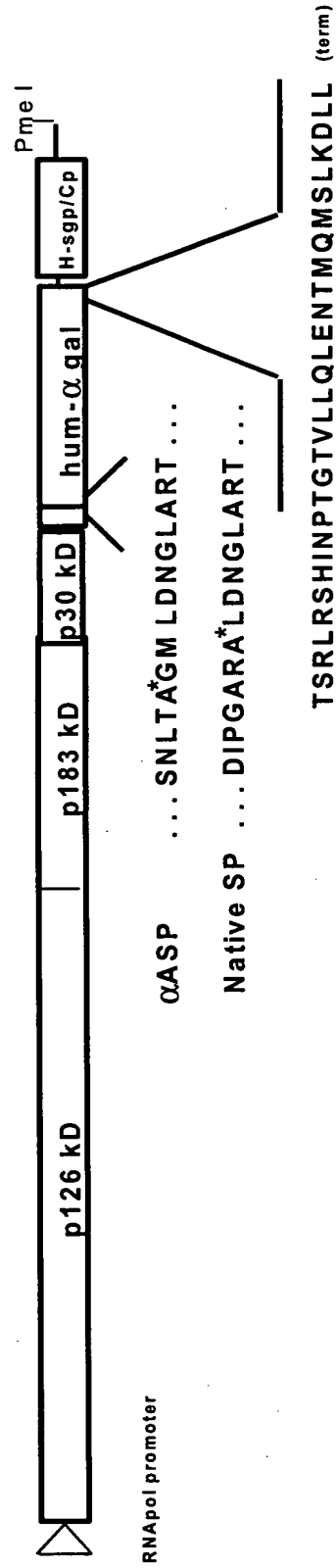


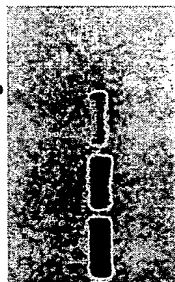
FIG. 2

THEFT 03000000

Accumulation and Activity of WT rGal-A

A.

rGAL-A 100 ng C.V.



Mr kDa

45

1 2 3 4

Western Analysis

total plant soluble extract
anti human GAL-A sera

B.

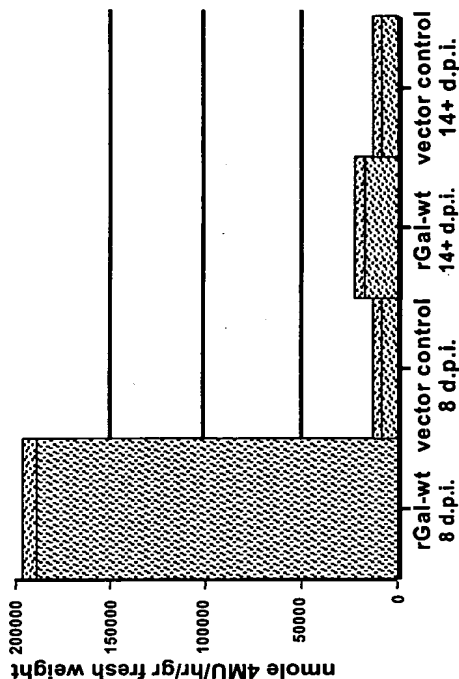


FIG. 3

IF Homogenate

FIG. 4

12-1-83 10:00:00

Carboxy-Modifications to rGal-A

	-30	-20	-10
WT rGAL-A	TSRLRSHINPTGTVLLQL	ENTMQMSLKDLL	
WT rGAL-AR	TSRLRSHINPTGTVLLQL	ENTMQMSLKDLLSEKDEL	
rGAL-4	TSRLRSHINPTGTVLLQL	ENTMQMSL	
rGAL-4R	TSRLRSHINPTGTVLLQL	ENTMQMSLKDEL	
rGAL-8	TSRLRSHINPTGTVLLQL	ENTM	
rGAL-8R	TSRLRSHINPTGTVLLQL	ENTMSEKDEL	
rGAL-12	TSRLRSHINPTGTVLLQL		
rGAL-12R	TSRLRSHINPTGTVLLQL	SEKDEL	
rGAL-25	TSRLR		
rGAL-25R	TSRLRSEKDEL		
Control virus (GFP, AMP, IFN γ)			

* potential CTPP cleavage (Gene 58:177,1987).

FIG. 5

10/13/00

Western Blot Analysis of Carboxy-modified rGal-A

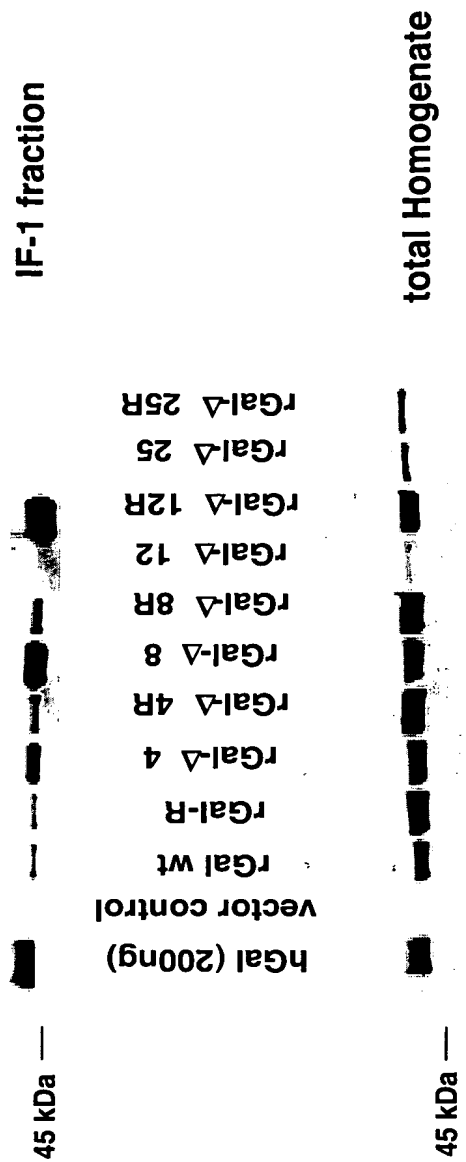


FIG. 6

FIG. 7

Coomassie Stain - IF

Mr kDa

200
116
97
66
45
31
21.5
14.4
6.5

hGAL-A
Δ8R
Δ8
Δ8
Δ4R
Δ4
Δ12R
C.V.
C.V.
M

1 2 3 4 5 6 7 8 9 10

FIG. 8

Coomassie Stain - IF

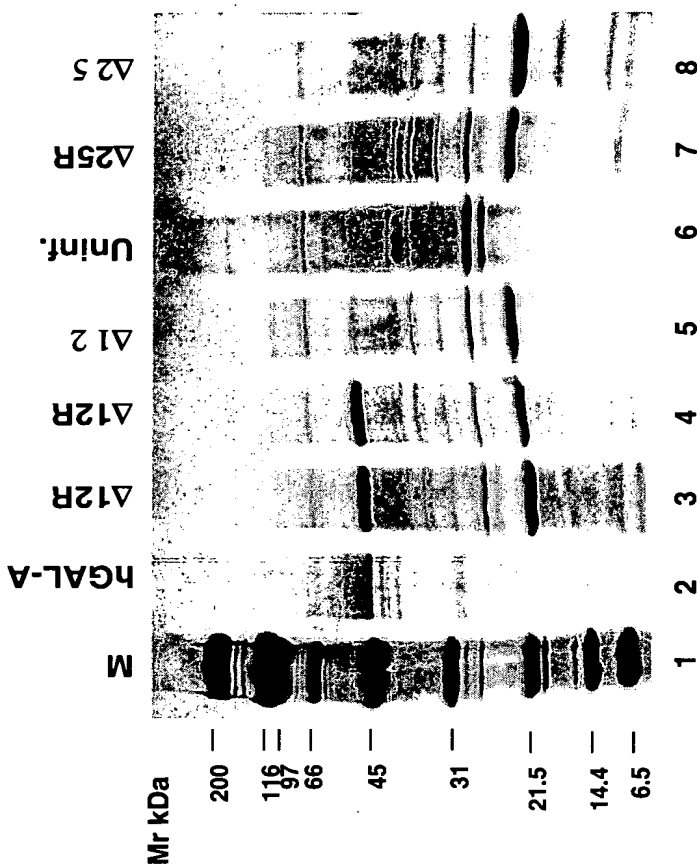


FIG. 9

Schematic of rGal-A Secretion

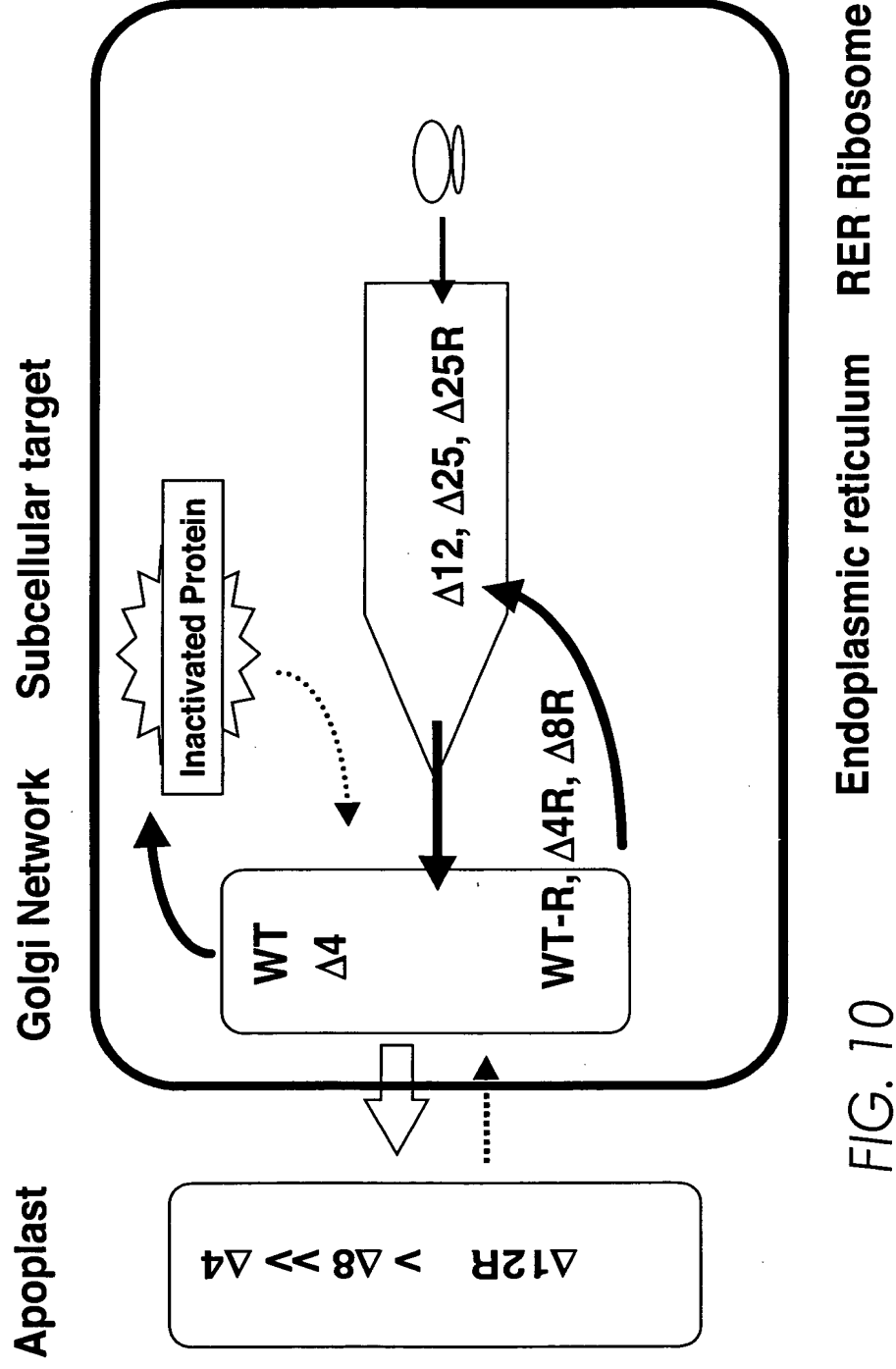


FIG. 10

SECRET

FIG. 11

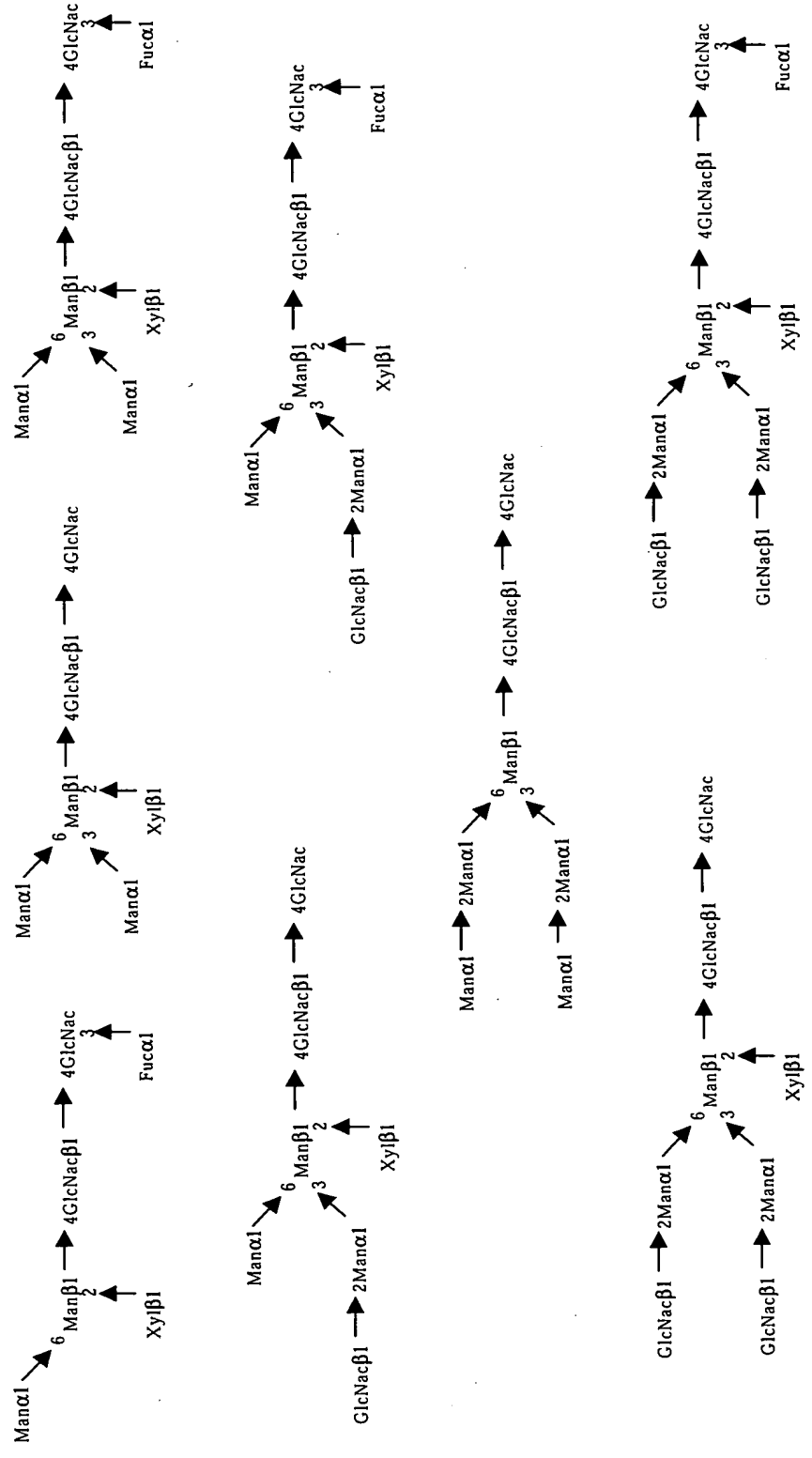


FIG. 12-1

[illegible]

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CTATTCTCAGAATGACTTGGTTGAGTACTACCAGTTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAAATTAT

FIG. 12-3

[illegible]

FIG. 13-2

TRANSGENIC VECTOR FOR rGCB EXPRESSION

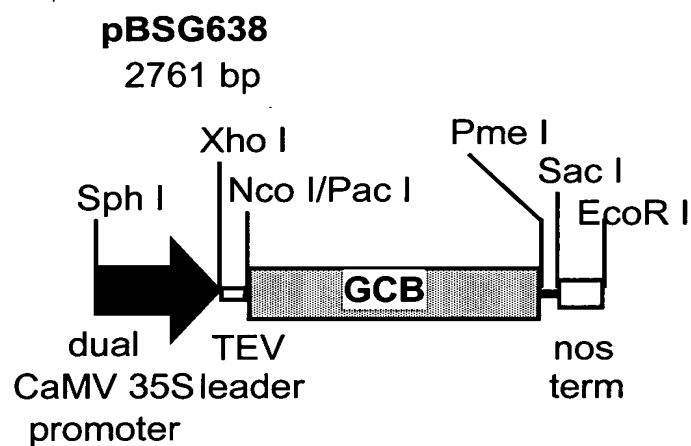


FIG. 14

VIRAL VECTOR FOR rGCB EXPRESSION

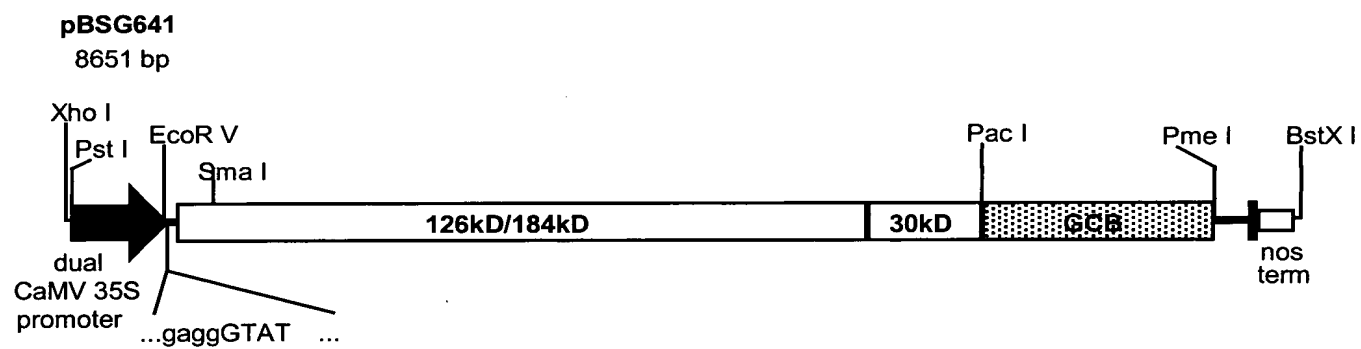


FIG. 15